EE/SSD/SR2/000001/21-22 dt 22/4/2021

M. A. R. 57 (Rule 116) **No. D**

Measurement Book

346332

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number	Dimensions			Contents	Reference to last Measurement
			Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Name of work!- Improvements and maintenance of Culvert at Mallasandra Colony and Surrounding area in ward No. 13 Mallasandra Shettyhalli Sub division.						
	Job Code !- 013-20-000012						
	Est Cost !- 10.00 Lakhs.						
	AS NO !- EE/DD/AS/102/2019-20, Dated !- 30.01.2019						
	TS NO !- EE/DD/TS/64/2018-19, Dated !- 30.01.2019						
	Work order NO!- BBMP/EE/DD/WO/520/2019-20, Dated !- 22.01.2020.						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
①	Earthwork excavation by manual means for roads, drains, & similar works in ordinary soil involving J+S completed as per Specification.						
	Pre-measurement Qty vide this M.B. Page No.						
	346336					= 90.73 m^3	
	@ P.S 175.00/m^3 Rs = 15878.28						
②	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC Cement @ 220 kgs with 20mm and down size grade granite J+S completed as per Specification.						
	pre-measurement Qty vide this M.B. Page No.						
	346337					= 11.89 m^3	

M. A. R. 57 (Rule 116) **No. D**

Measurement Book

346333

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		@ Rs. 4900.00/m³				Rs. =	58256.84
③	providing and laying plain/reinforced Cement Concrete for Side drain using M20 nominal mix Concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregate at 0.69 cum and fine aggregate at 0.43 cum. It is completed as per Specification. For RCC Culvert Bed concrete.						
a)	For culvert - 1, 2nd cross (Infront of Ambedkar Bhavan)	1	X 5.80	X 1.80	X 0.20 =	2.09	cum

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
1	2	Number 3	Length 4	Breadth 5	Depth 6	7	8
b)	For Culvert-2, 3rd cross	1 X	6.50 X	1.80 X	0.20 =	2.34	m^3
c)	For Culvert-3, 3rd cross	1 X	5.10 X	1.50 X	0.20 =	1.53	m^3
d)	For culvert-4	1 X	5.00 X	1.50 X	0.20 =	1.50	m^3
e)	For culvert-5, 4th cross from mallasandra village Road	1 X	4.60 X	1.50 X	0.20 =	1.38	m^3
f)	For culvert-6, Near Rama mandira	1 X	9.00 X	1.20 X	0.20 =	2.16	m^3
	For culvert Side wall						
g)	For Culvert-1, 2nd cross (Infront of Ambedkar bhavan)	2 X	5.80 X	0.30 X	1.00 =	3.48	m^3

Total 04/01/2021

Je 4/1

M. A. R. 57 (Rule 116) **No. D**

Measurement Book

346334

Serial No. .....

Name of work .....

Name of Contractor of nature of Agency..... From ..... To .....

Date of commencement of work.....

Date	Full description, etc, of work	Number	Dimensions		Depth	Contents	Reference to last Measurement
			Length	Breadth			
1	2	3	4	5	6	7	8
b)	For culvert-2, 3rd cross	2X	6.50X	0.30X	0.98 =	3.82 m^3	
c)	For culvert-3, 3rd cross	2X	5.10X	0.30X	0.90 =	2.75 m^3	
d)	For culvert-4	2X	5.00X	0.30X	0.86 =	2.58 m^3	
e)	For culvert-5, 11th cross from mallasandra village Road	2X	4.60X	0.30X	0.90 =	2.48 m^3	
f)	For culvert-6, near Rama manelira	2X	9.00X	0.30X	0.92 =	4.97 m^3	

03/01/2024

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	For Culverts Deck						
a)	For Culvert-1, 2nd cross in front of Ambedkar bhavan	1	5.80	1.80	0.30	= 3.13 m³	
b)	For Culvert-2, 3rd cross	1	6.50	1.80	0.30	= 3.51 m³	
c)	For Culvert-3, 3rd cross	1	5.10	1.50	0.30	= 2.30 m³	
d)	For Culvert-4,	1	5.00	1.50	0.30	= 2.25 m³	
e)	For Culvert-5, 11th cross from mallasandra village Road	1	4.60	1.50	0.30	= 2.07 m³	
f)	For culvert-6, near Rama mandira	1	9.00	1.20	0.30	= 3.24 m³	

Above levels 17/01/2024

7/01

EXECUTIVE ENGINEER

M. A. R. 57 (Rule 116) **No. D**

Measurement Book

Serial No. .....

346335

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Number 3	Dimensions Length 4	Dimensions Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	For Culvert & Ramp						
a)	For culvert-1, 2nd cross (infront of Ambedkar Bhavan)	2	5.80	0.75	0.15	1.31	m^3
b)	For culvert-2, 3rd cross	2	6.50	0.80	0.15	1.56	m^3
c)	For culvert-3, 3rd cross	2	5.10	0.73	0.15	1.12	m^3
d)	For culvert-4	2	5.00	0.72	0.15	1.08	m^3
e)	For culvert-5, 11th cross from Mallasandra village Road	2	4.60	0.60	0.15	0.83	m^3
f)	For culvert-6. Near Rama mandira	2	9.00	0.90	0.15	2.43	m^3

Total 17/01/2024 7.11

EXECUTIVE ENGINEER
Bruhat Bengaluru Mahanagara Palike
Dasarahalli Division, Bangalore-57

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
			present qty =			55.91 m^3	
			limited qty =			55.73 m^3	
			@ RS. 4950/m^3			RS = 275863.50	
(4)	Providing T.M.T Steel reinforcement for R.C.C. work including Straightting cutting bending, hooking placing fully completed as per Specification.						
	Pre-measurement qty vide this M.B. page NO. 346338 to 346340 = 5.00					Tonne	
			@ RS. 65000/Tonne			RS = 326300.00	
						Total RS = 676298.61	
			GST charges 12%			RS = 81155.83	
			Grand Total			RS = 757454.44	

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಬಿಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು.

15/12

Measurements

Audited and admitted for Rs. ₹57454:00

Passed by Che... for the ₹11355:00

Serial No. Lakh Eleven Thousand

Name of work ... Three Hundred 54 Five

Name of Contractor or nature of Agency ... From ... To ...

Date of commencement of work ...

Signature of Contractor

Signature of Assistant Engineer

Signature of Executive Engineer

EESMP Basavahalli Division

M. A. R. 57 (Rule 116) **No. D**

Measurement Book

346336

₹57: 00
Lace → 35: 00
CBF → 35.7 To: 00
BM → 10640: 00
Cost → 6763: 00
6763: 00
Mine 6020: 00

Sl. No.	Full description, etc, of work	Number	Dimensions Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
①	Earthwork Excavation by manuals means for roads, drains and Similar work in ordinary Soil involving, Excavated Surface leveled & Steles neatly dressed, the disposed earth to be levelled neatly If it is completed as per Specifications.						
a)	For Culvert-1, 2nd cross (Infront of Ambedkar bhavan)	1 X	5.80 X	2.18 X	1.10 =	13.91 Cum	
b)	For Culvert-2, 3rd cross	1 X	6.50 X	2.20 X	1.08 =	15.58 Cum	
c)	For Culvert-3, 3rd Cross	1 X	5.10 X	2.23 X	1.10 =	12.51 Cum	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
d)	For Culvert - 4	1 X	5.00 X	2.17 X	1.05 =	11.39 Cum	
e)	For Culvert - 5, 11th Cross from Mallasandra village Road	1 X	4.60 X	2.19 X	1.00 =	10.07 Cum	
f)	For Culvert - 6, Near Rama mandira	1 X	9.00 X	2.21 X	1.06 =	21.08 Cum	
	For disilting in open drain	1 X	8.40 X	0.60 X	0.50 =	2.52 Cum	
		1 X	12.20 X	0.60 X	0.50 =	3.66 Cum	
			present qty =			90.73 Cum	

Dy Executive Engineer

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೈಕ್ಷಿಕ್ಷ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು.

28/12

23/12/2020

M. A. R. 57 (Rule 116) **No. D**

Measurement Book

346337

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number	Dimensions Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4		5	6	7	8
(2)	Providing and laying in position plain Cement Concrete of mix 1:3:6 with OPC Cement @ 220 kgs with 20mm down size graded granite metal coarse aggregates @ 0.84 cum and fine aggregates @ 0.56 cum, machine mixed, this Completed as per Specification.						
a)	For culvert-1, 2nd cross (Infront of Ambedkar bhavan)	1	X 5.80	X 2.18	X 0.15 =	1.90 Cum	
b)	For culvert-2, 3rd cross	1	X 6.50	X 2.22	X 0.15 =	2.16 cum	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
c)	For Culvert - 3, 3rd Cross	1	5.10	2.23	0.15	= 1.71 Cum	
d)	For Culvert - 4	1	5.00	2.17	0.15	= 1.63 Cum	
e)	For Culvert - 5, 11th Cross From Mallasandra Village Road	1	4.60	2.19	0.15	= 1.51 Cum	
f)	For Culvert - 6, Near Rama Mandira	1	9.00	2.21	0.15	= 2.98 Cum	
					Present Qty =	11.89 Cum	

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಪೀಣ್ಯಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

28/12

28/12/2020

Serial No. .....

M. A. R. 57 (Rule 116)
Measurement Book

No. D

Name of work .....

Name of Contractor of nature of Agency ..... From ..... To .....

346338

Date of commencement of work .....

Date	Full description, etc. of work	Number	Dimensions: Length	Dimensions: Breadth	Dimensions: Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	④ providing T.M.T Steel reinforcement for R.C.C. work including, Straightting. Cutting, bending, hooking, Placing in position, lapping and / or welding wherever required, tying with ftrs completed as per Specification.						
	Double Mat						
	For R.C.C Culverts						
	a) For Culvert - 1, 2nd cross (Infront of Ambedkar bhavan)						
	Total length of culvert = 5.80 Mtr.						
	Main Bars ⌀ 12mm dia @ 100mm C/C						
	0.89 kg/ Mtr.						
	2 X 60 X 5.40 X 0.89 = 576.72 kg						
	Distribution Bars ⌀ 10mm dia @ 100mm C/C						
	0.62 kg/ Mtr						
	2 X 56 X 5.80 X 0.62 = 402.75 kg						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
b)	For culvert-2, 3rd cross Total length of culvert = 6.50 Mtr					Main Bars 12mm dia @ 100mm C/C 0.89 Kg/Mtr 2 X 68 X 5.40 X 0.89 = 653.62 kg	
						Distribution Bars 10mm dia @ 100mm C/C 0.62 kg/Mtr 2 X 55 X 6.50 X 0.62 = 443.30 kg	
c)	For culvert-3, 3rd cross Total length of culvert = 5.10 Mtr					Main Bars 12mm dia @ 100mm C/C 0.89 kg/Mtr 2 X 52 X 4.20 X 0.89 = 388.75 kg	
						Distribution Bars 10mm dia @ 100mm C/C 0.62 kg/Mtr	

M. A. R. 57 (Rule 116) **No. D**

Measurement Book

346339

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		2 X	44 X	5.10 X	0.62 =	278.26	kg
d)	For Current - 4	main Bars 12 mm dia @ 100mm c/c					
	Total length of Current	0.89 kg/mtr					
	= 5.00 mtr	2 X	52 X	4.20 X	0.89 =	388.75	kg
		Distribution Bars 10mm dia @ 100mm c/c					
		0.62 kg/mtr					
		2 X	44 X	5.00 X	0.62 =	272.80	kg

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
e)	For culvert-5, 11th cross from mallasandra village Road Total length of culvert = 4.60 mtr					main Bars 12 mm dia @ 100mm c/c 0.89 kg/mtr 2X 48 X 4.20 X 0.89 = 358.85 kg	
						Distribution Bars 10mm dia @ 100mm c/c 2X 44 X 4.60 X 0.62 = 250.98 kg	
f)	For culvert-6, Near Rama mandira Total length of culvert = 9.00 mtr					main Bars 12mm dia @ 100mm c/c 0.89 kg/mtr 2X 92 X 4.20 X 0.89 = 687.79 kg	
						Distribution Bars 10mm dia @ 100mm c/c	

M. A. R. 57 (Rule 116) **No. D**

Measurement Book

346340

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

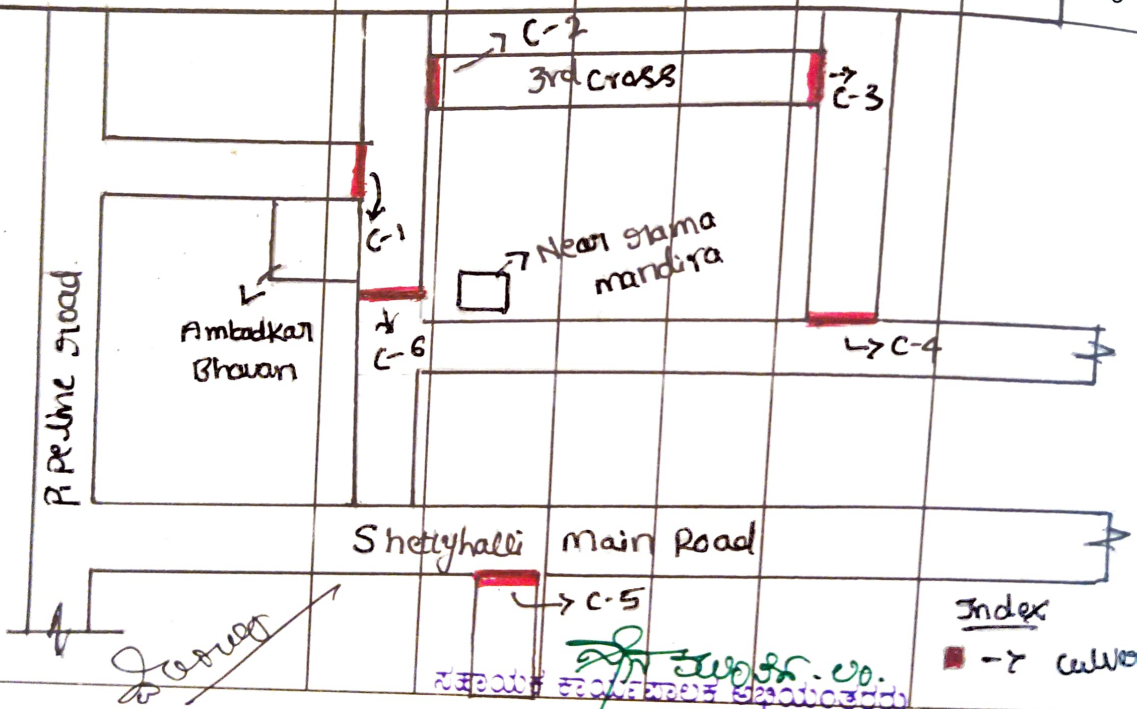
Date	Full description, etc, of work	Dimensions			Contents	Reference to last Measurement
		Number	Length	Breadth / Depth		
1	2	3	4	5 / 6	7	8
		0.62 Icy / Mtr				
		2 X 44 X 9.00 X 0.62 =			491.04 kg	
		present qty =			5193.60 Icy	
		present qty =			5.19 tonne	
		Limited to qty =			5.02 tonne	

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಹೆಬ್ಬಾಳ.

30/12/20

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8



ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ